

PATENT APPLICATION  
Q-89149

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Gerald CHAMBON et al

Appln. No. NOT YET KNOWN

PCT/FR2003/014955

December 30, 2003

Confirmation No.: NOT YET KNOWN

Filed: July 19, 2005

For: DEVICE FOR MEASURING THE QUALITY AND/OR DEGRADATION OF A FLUID,  
PARTICULARLY A FOOD OIL

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO/SB/08 A & B (modified) and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the non-U.S. listed patent documents is submitted herewith. In accordance with 37 C.F.R. § 1.98(a)(2)(i), the undersigned is not submitting copies of the cited U.S. patents.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action

## INFORMATION DISCLOSURE STATEMENT

on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations:

**DE 19649366** relates to a micro sensor for analyzing liquids, in particular alcohol/petroleum mixtures or the likes, which has three dimensional, interdigital first and second micro electrodes (4, 6), defining a gap of the order of 20µm between each microelectrode, which are mounted on a substrate (IDS-Chip A). The interdigital structures (4, 6) of the micro sensor are undercut in such a way that they are surrounded by the measuring liquid (F), whereby the first and second micro electrodes (4, 6) form a capacitor in relation to each other. The electrodes (4, 6) rest preferably on their edge areas only. The capacity of a dielectric liquid/liquid mixture is determined with a sensor. Furthermore, the conductivity can be determined and used for correcting impurities. Variations due to temperature change are eliminated by means of a temperature sensor.

**WO 0062057** relates to the control of a vat containing oil or cooking fat that undergoes a plurality of heating cycles, whereby a capacitive probe is disposed in an area of the vat that is adapted for immersion in said oil or cooking fat, whereby the dielectric gap thereof is taken up by a portion of the oil or cooking fat and an initialization procedure is triggered (E2) after the vat has been filled with said liquid (E1), whereby a measurement is made of the initial value of a characteristic representing the dielectric constant of said liquid in heating conditions and a

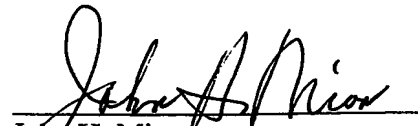
INFORMATION DISCLOSURE STATEMENT

retirement criterion is established, whereby the measurement of said characteristic is repeatedly detected during the course of successive heating cycles and a retirement procedure (E6) is triggered when the retirement criterion is detected (E4) as being met. According to this document the capacitive probe is formed of two plates separated from each other by dielectric spacers.

No concise explanation of relevance is required for GB '130 since it is in the English language.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,

  
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CUSTOMER NUMBER

Date: July 19, 2005

Substitute for form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	NOT YET KNOWN 2636
Confirmation Number	NOT YET KNOWN
Filing Date	July 19, 2005
First Named Inventor	Gerald CHAMBON et al
Art Unit	NOT YET KNOWN
Examiner Name	NOT YET KNOWN
Attorney Docket Number	Q-89149

Sheet 1 of 1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 5,818,731		10/6/1998	Gauri S. MITTAL et al
		US 4,728,882		3/1/1988	William D. STANBRO et al
		US 5,111,221		5/5/1992	Thomas L. FARE et al
		US 4,733,556		3/29/1988	Allen H. MEITZLER et al
		US 6,469,521	B1	10/22/2002	Wolfgang Klun
		US			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translatio n <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		UK	2 136 130		9/12/1984	Theodore Henry KRUEGER	
		DE	196 49 366	A1	6/4/1998	SIEMENS AUTOMOTIVE SA	
		WO	00/62057	A1	10/19/2000	METATRON	

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translatio n <sup>6</sup>

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is indicate here if English language Translation is attached.